



Contents of *Agricultural Water Management*, Volume 70

VOLUME 70 ISSUE 1

15 OCTOBER 2004

Review

Assessing microbial pollution of rural surface waters. A review of current watershed scale modeling approaches

R. Jamieson (Guelph, Canada), R. Gordon (Truro, Canada), D. Joy and H. Lee (Guelph, Canada) 1

Analysis of irrigation systems and irrigation strategies for durum wheat in Tunisia
J.C. Mailhol (Montpellier, France), A. Zaïri, A. Slatni, B. Ben Nouma and

H. El Amani (Ariana, Tunisia) 19

Diffusive tank model application in rainfall-runoff analysis of upland fields in Taiwan

R.S. Chen and L.C. Pi (Taichung, Taiwan) 39

Agricultural water management in a humid region: sensitivity to climate, soil and crop parameters

S.R. Satti (Gainesville, FL, USA), J.M. Jacobs (Durham, NH, USA) and S. Irmak (Lincoln, NE, USA) 51

Rice root growth and nutrient uptake as influenced by organic manure in continuously and alternately flooded paddy soils

C. Yang (Shanghai, PR China and Nanjing, PR China), L. Yang (Nanjing, PR China), Y. Yang (Shanghai, PR China) and Z. Ouyang (Beijing, PR China) 67

VOLUME 70 ISSUE 2

25 NOVEMBER 2004

Evaluation of pedotransfer functions in predicting the soil water contents at field capacity and wilting point

J. Givi (Shahrekord, Iran), S.O. Prasher and R.M. Patel (Ste-Anne de Bellevue, Canada) 83

Yield and physiological traits of prickly pear cactus 'nopal' (*Opuntia* spp.) cultivars under drip irrigation

A. Flores-Hernández, I. Orona-Castillo (Durango, Mexico), B. Murillo-Amado, J.L. García-Hernández and E. Troyo-Dieguez (Baja California Sur, Mexico) 97

Evaluation of salt-tolerant forages for sequential water reuse systems. I. Biomass production

S.R. Grattan (Davis, CA, USA), C.M. Grieve, J.A. Poss (Riverside, CA, USA), P.H. Robinson (Davis, CA, USA), D.L. Suarez (Riverside, CA, USA) and S.E. Benes (Fresno, CA, USA) 109

Evaluation of salt-tolerant forages for sequential water reuse systems. II. Plant-ion relations C.M. Grieve, J.A. Poss (Riverside, CA, USA), S.R. Grattan (Davis, CA, USA), D.L. Suarez (Riverside, CA, USA), S.E. Benes (Fresno, CA, USA) and P.H. Robinson (Davis, CA, USA),	121
Evaluation of salt-tolerant forages for sequential water reuse systems. III Potential implications for ruminant mineral nutrition S.R. Grattan (Davis, CA, USA), C.M. Grieve, J.A. Poss (Riverside, CA, USA), P.H. Robinson (Davis, CA, USA), D.L. Suarez (Riverside, CA, USA) and S.E. Benes (Fresno, CA, USA).	137
Temporal variations in water quality of farm dams: impacts of land use and water sources M.A. Brainwood, S. Burgin and B. Maheshwari (Penrith South, Australia)	151

VOLUME 70 ISSUE 3**25 DECEMBER 2004**

Characterizing pivot sprinklers using an experimental irrigation machine E. Playán, S. Garrido, J.M. Faci and A. Galán (Zaragoza, Spain).	177
Assessment of irrigation and environmental quality at the hydrological basin level. I. Irrigation quality J. Causapé, D. Quílez and R. Aragüés (Zaragoza, Spain)	195
Assessment of irrigation and environmental quality at the hydrological basin level. II. Salt and nitrate loads in irrigation return flows J. Causapé, D. Quílez and R. Aragüés (Zaragoza, Spain)	211
Mathematical modeling of open-channel velocity profiles for float method calibration E.Y. Kra (Legon, Ghana) and G.P. Merkley (Logan, UT, USA)	229
Cumulative Author Index, Volumes 64-70	245
Cumulative Subject Index, Volumes 64-70	253
Contents of Agricultural Water Management, Volume 70	277